ULTIMATE eSPORTS GAMING MONITOR

Gaming is in the Details

XL Series
User Manual

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The performance of flicker-free may be affected by external factors such as poor cable quality, unstable power supply, signal interference, or poor grounding, and not limited to the above mentioned external factors. (Applicable for flicker-free models only.)

Power Safety

Please follow these safety instructions for best performance, and long life for your monitor.

- The AC plug isolates this equipment from the AC supply.
- The power supply cord serves as a power disconnect device for pluggable equipment. The socket outlet should be installed near the equipment and be easily accessible.
- This product should be operated from the type of power indicated on the marked label. If you are not sure of the type of power available, consult your dealer or local power company.
- An approved power cord greater or equal to H03VV-F or H05VV-F, 2G or 3G, 0.75mm^2 must be used.

Care And Cleaning

- Cleaning. Always unplug your monitor from the wall outlet before cleaning. Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.
- Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.
- Never push objects or spill liquid of any kind into this product.

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Servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages or other risks. If any of the above mentioned misuse or other accident such as dropping or mishandling occurs, contact qualified service personnel for servicing.

BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at http://csr.BenQ.com/ for more details on BenQ's environmental commitments and achievements.

ecoFACTS
csr.BenQ.com
• Mercury-free LED-backlit display
• BFR/PVC-free casing plastics
• Eco-friendly ink printing in packaging box
• Affichage rétroéclairé par DÉL sans mercure
• Plastiques du boîtier sans BFR/PVC
• Impression à l'encre écologique dans l'emballage

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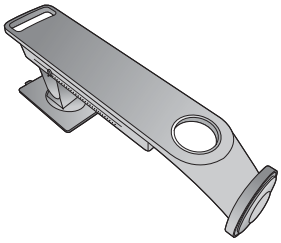
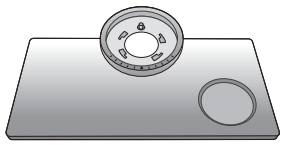
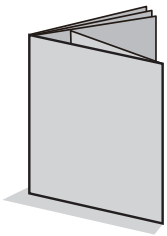
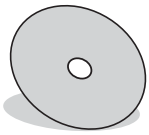
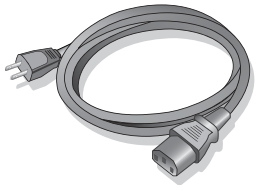
Getting started

When unpacking please check you have the following items. If any are missing or damaged, please contact the place of purchase for a replacement.

BenQ LCD Monitor	
Monitor Stand	
Monitor Base	
S Switch (Swift Switch)	
Quick Start Guide	
CD-ROM	
Power Cord (Picture may differ from product supplied for your region.)	

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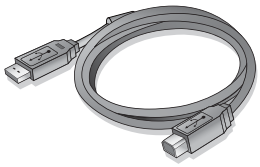
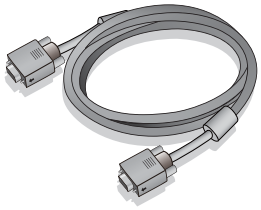
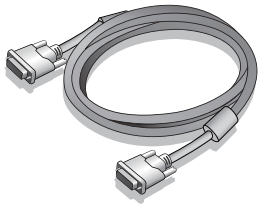
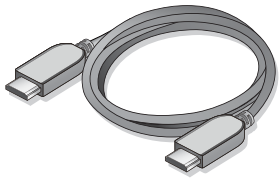
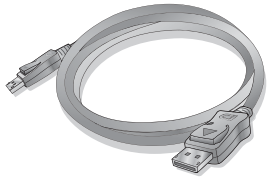
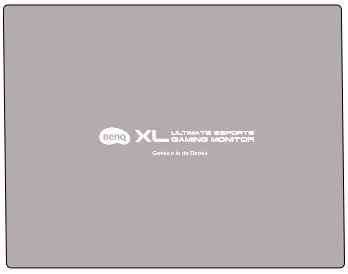
USB Cable	
Video Cable: D-Sub (Optional accessory, sold separately)	
Video Cable: DVI-D Dual Link	
Video Cable: HDMI (Optional accessory, sold separately)	
Video Cable: DP (Optional accessory, sold separately)	
Protective cover	

- Available accessories and the pictures shown here may differ from the actual contents and the product supplied for your region. For cables that are not supplied with your product, you can purchase them separately.
- Consider keeping the box and packaging in storage for use in the future when you may need to transport the monitor. The fitted foam packing is ideal for protecting the monitor during transport.

Always keep the product and accessories out of reach of small children.

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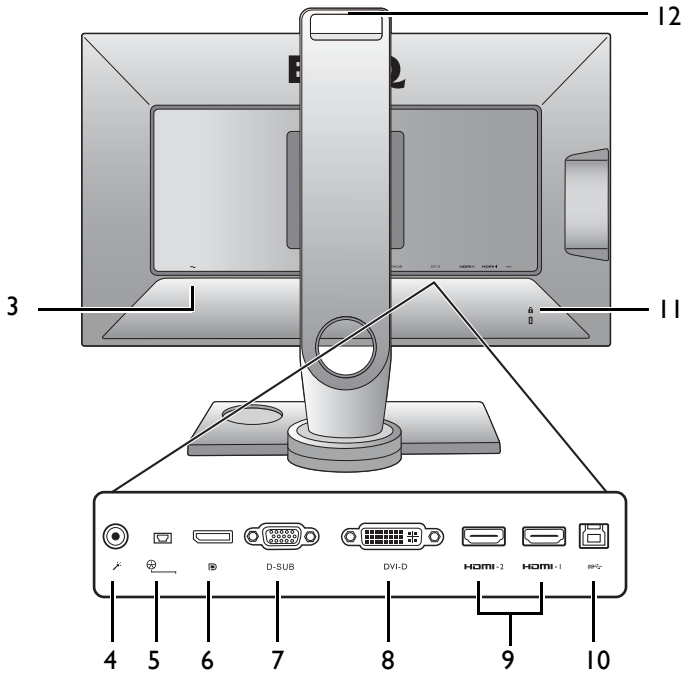
Getting to know your monitor

Front view

1. Control buttons
2. Power button

Back view



3. AC Power Input jack
4. Mic-In jack
5. S Switch socket
6. DisplayPort socket
7. D-Sub socket
8. DVI-D socket
9. HDMI socket x 2
10. USB port (upstream; connecting to the PC)
11. Kensington lock slot
12. Handle

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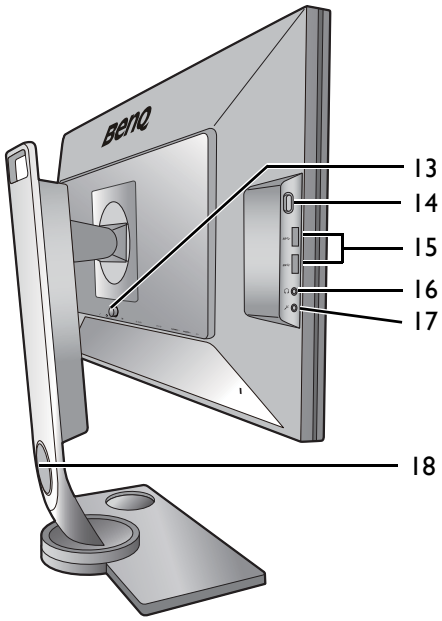

13. VESA mount release button
14. Headphone hook
15. USB port x 2 (downstream; connecting to USB devices)
16. Headphone jack
17. Microphone jack
18. Cable management hole

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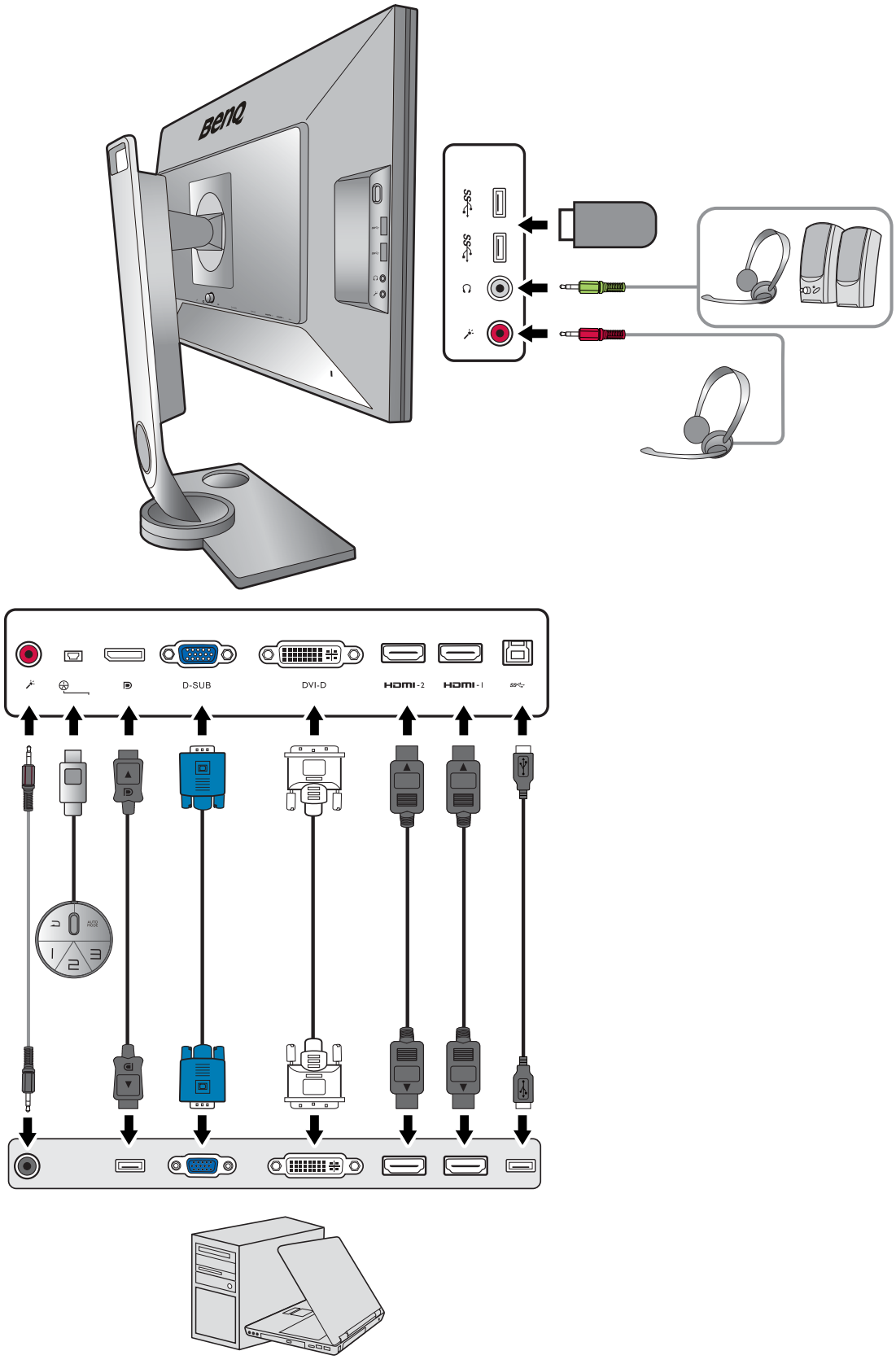
Connection

The following connection illustrations are for your reference only. For cables that are not supplied with your product, you can purchase them separately.

For detailed connection methods, see page 12 - 15.



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How to assemble your monitor hardware

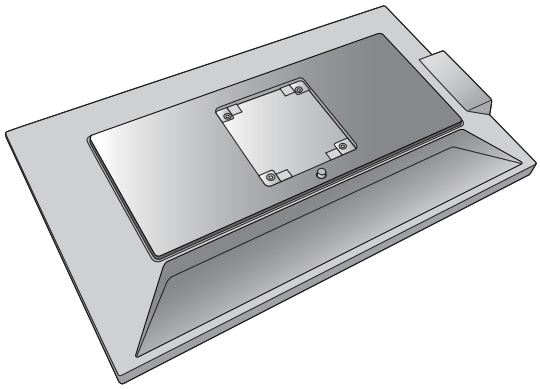
- If the computer is turned on you must turn it off before continuing.
  Do not plug-in or turn-on the power to the monitor until instructed to do so.
- The following illustrations are for your reference only. Available input and output jacks may vary depending on the purchased model.

1. Attach the monitor base.

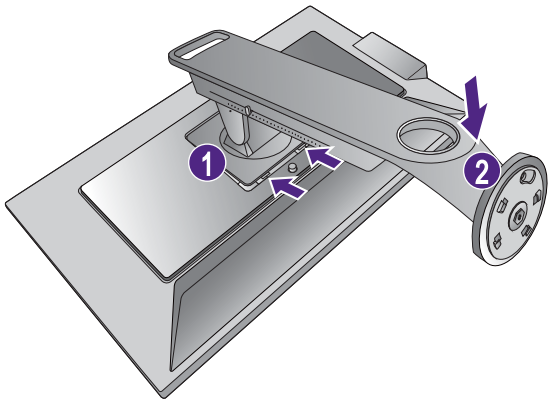
Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.

Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like the monitor packaging bag on the desk for padding.

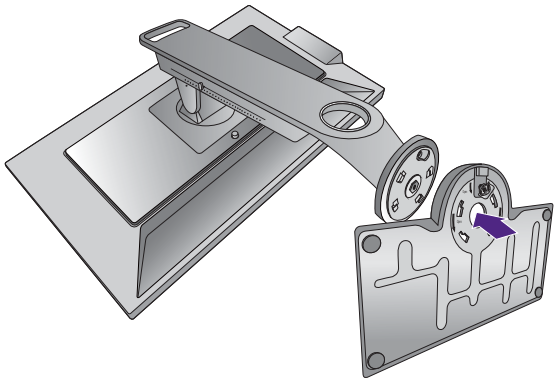
Gently lay the screen face down on a flat clean padded surface.



Orient and align the stand arm with the monitor (1), push them together until they click and lock into place (2).



Orient and align the stand base socket with the end of the stand arm. Make sure to align the arrow on the end of the stand to the one on the monitor base.



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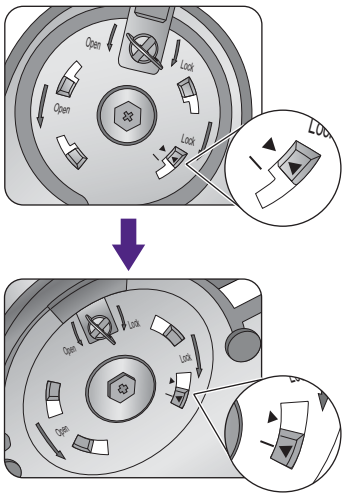
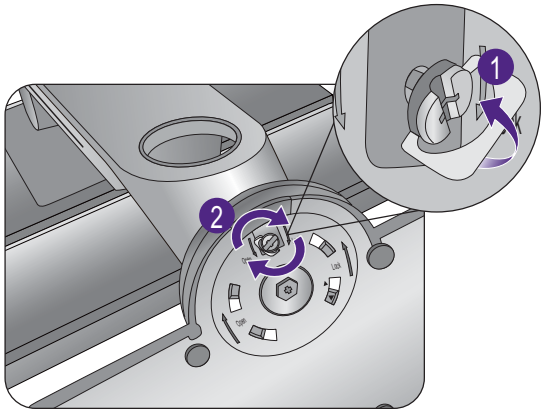
Turn the base counterclockwise until you cannot go further.



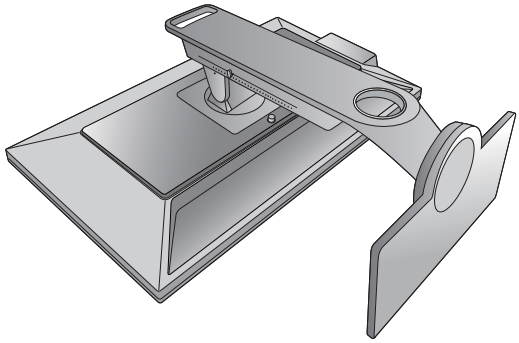
Raise the thumbscrew lid (1) and tighten the thumbscrew as illustrated (2). Then push the lid back.

Carefully put down the stand and the base.

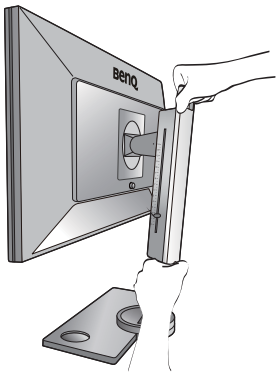


Gently attempt to pull the stand and the base back apart to check that they have properly engaged.

Carefully lift the monitor, turn it over and place it upright on its stand on a flat even surface.



To move the monitor, you must hold the handle and the bottom of the stand base at the same time as illustrated. You can protect the monitor using the supplied protective cover.



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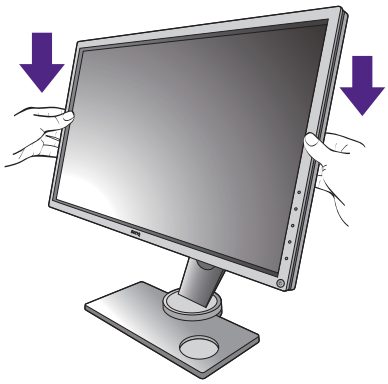
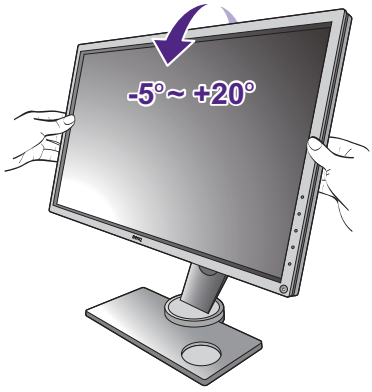
You might want to adjust the monitor stand height. See Adjusting the monitor height on page 19 for more information.



You should position the monitor and angle the screen to minimize unwanted reflections from other light sources.



2. Connect the PC video cable.

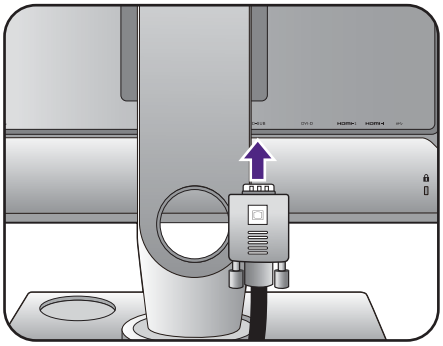
Do not use both DVI-D cable and D-Sub cable on the same PC. The only case in which both cables can be used is if they are connected to two different PCs with appropriate video systems.

To Connect the D-Sub Cable

Connect the plug of the D-Sub cable (at the end without the ferrite filter) to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

Tighten all finger screws to prevent the plugs from accidently falling out during use.

Either

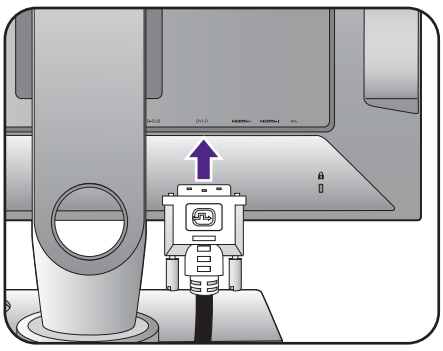


To Connect the DVI-D Dual Link Cable

Connect the plug of the DVI-D Dual Link cable to the monitor video socket. Connect the other end of the cable (at the end with the ferrite filter) to the computer video socket.

Tighten all finger screws to prevent the plugs from accidently falling out during use.

Or



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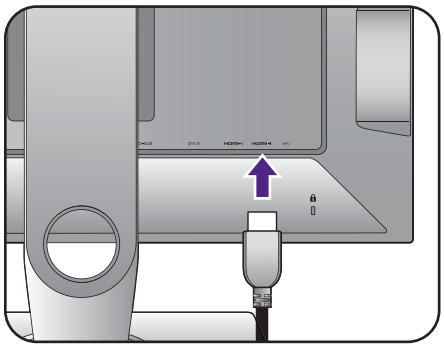
To Connect the HDMI Cable

Connect the plug of the HDMI cable to the HDMI port on the monitor. Connect the other end of the cable to the HDMI port of a digital output device.

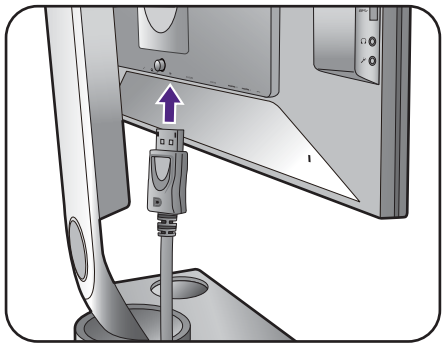
Or



To Connect the DP Cable

Connect the plug of the DP cable to the monitor video socket. Connect the other end of the cable to the computer video socket.

Or

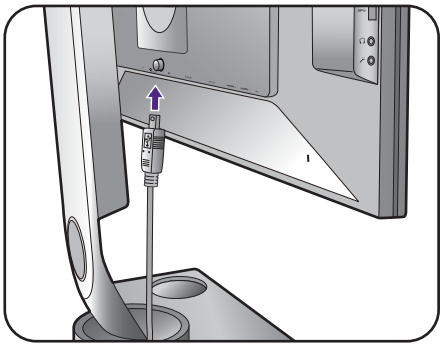


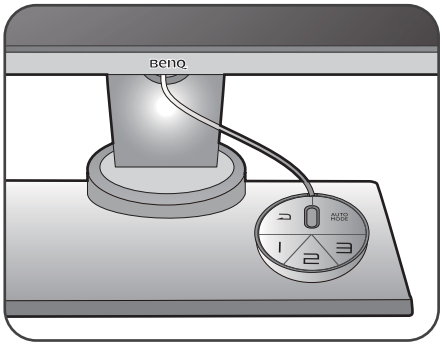
If there is more than one video transmission method available to you, you might want to take the picture quality of each video cable into consideration before making the connection.
- Better quality: HDMI / DVI-D / DP
- Good quality: D-Sub

The video cables included in your package and the socket illustrations on the right may vary depending on the product supplied for your region.

3. Connect the S Switch to the monitor.

Connect the S Switch to the S Switch socket found on the back of the monitor. And place the S Switch properly on your monitor base.





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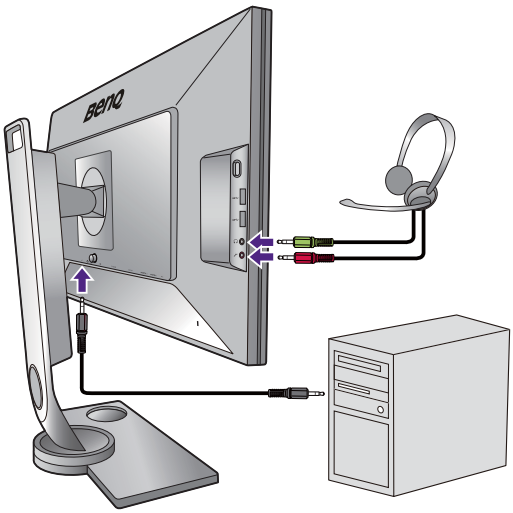
4. Connect the headset.

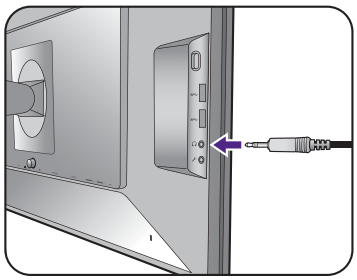
Connect the headphone connector of your headset to the headphone jack found on the left side of the monitor.

Connect the audio cable between the PC and the monitor (via the Mic-In jack at the back). And then connect your microphone connector on the headset to the microphone jack at the left side of the monitor.



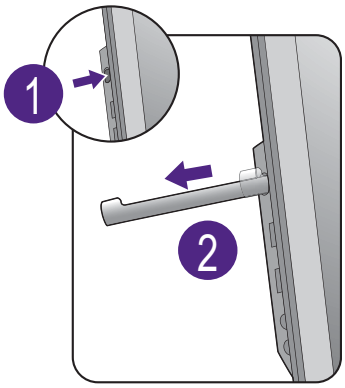
The headphone jacks work only when the audio source is HDMI or DisplayPort.

You may connect the headphones to the headphone jack found on the left side of the monitor.

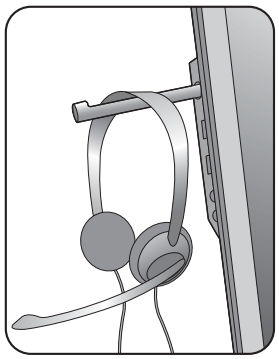


5. Using the headphone hook.

Push to release the headphone hook found on the left side of the monitor (1). And pull out the headphone hook (2).



Leave your headset on the headphone hook if needed.



The maximum load capacity of the headphone hook is 400g.

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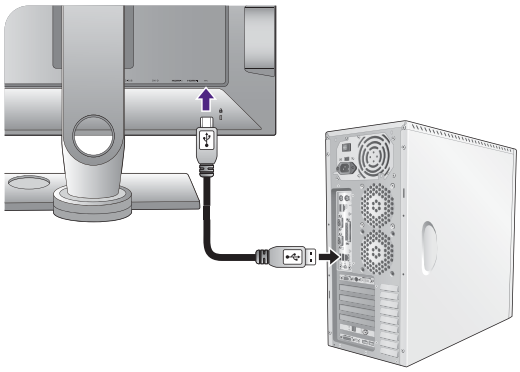
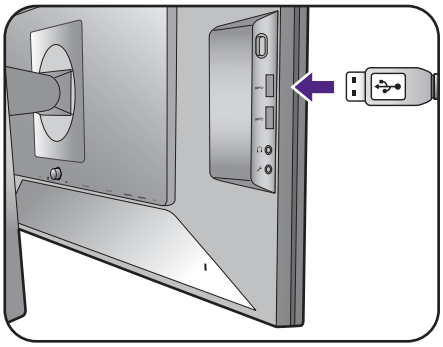
6. Connect USB devices.

Connect the USB cable between the PC and the monitor (via the upstream USB port at the back). This upstream USB port transmits data between the PC and the USB devices connected to the monitor.



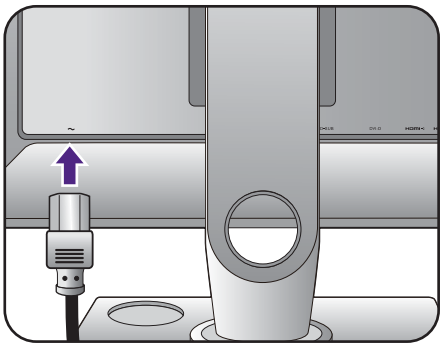
Connect USB devices via other USB ports (downstream) on the monitor. These downstream USB ports transmit data between connected USB devices and the upstream port.

See picture on the right.

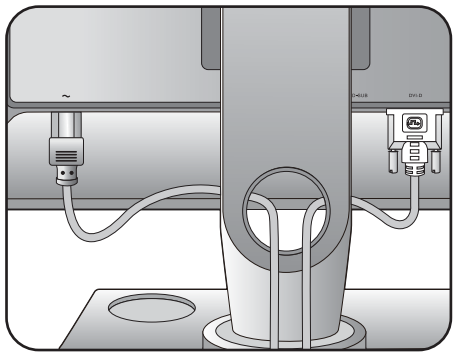


7. Connect the power cable to the monitor.

Plug one end of the power cord into the socket labelled ~ on the rear of the monitor. Do not connect the other end to a power outlet just yet.



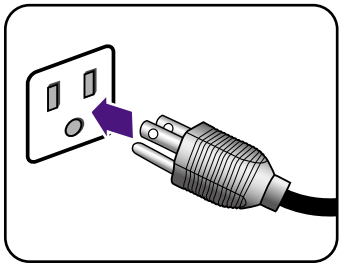
8. Organize the cables.



9. Connect-to and turn-on the power.

Plug the other end of the power cord into a power outlet and turn it on.

Picture may differ from product supplied for your region.



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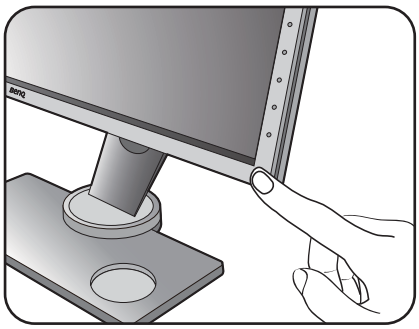
Turn on the monitor by pressing the power button on the monitor.

Turn on the computer too, and follow the instructions in Getting the most from your BenQ monitor on page 24 to install the monitor software.



To extend the service life of the product, we recommend that you use your computer's power management function.

When the monitor is powered on, to prevent overheating, do not cover the monitor with the supplied protective cover or obstruct the ventilation holes.

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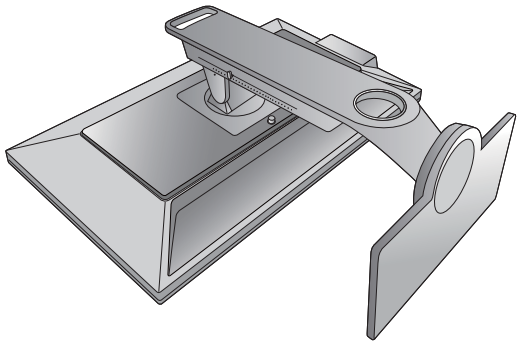
How to detach the stand and the base

1. Prepare the monitor and area.

Turn off the monitor and the power before unplugging the power cable. Turn off the computer before unplugging the monitor signal cable.

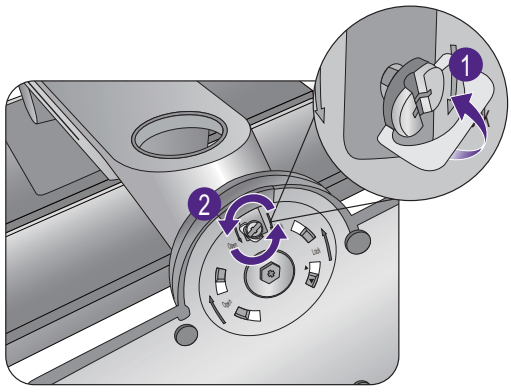
Protect the monitor and screen by clearing a flat open area on your desk and placing a soft item like a towel on the desk for padding, before laying the screen face down on a flat clean padded surface.



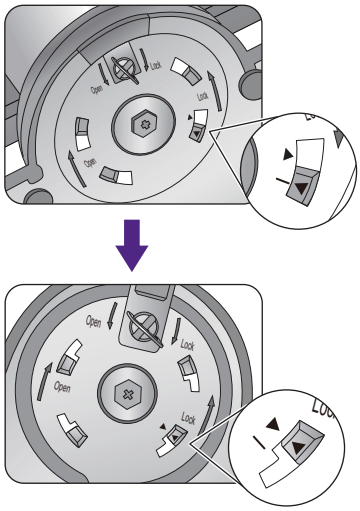
Please be careful to prevent damage to the monitor. Placing the screen surface on an object like a stapler or a mouse will crack the glass or damage the LCD substrate voiding your warranty. Sliding or scraping the monitor around on your desk will scratch or damage the monitor surround and controls.

2. Remove the monitor base.

Raise the thumbscrew lid (1) and release the thumbscrew as illustrated (2).



Turn the base clockwise until you cannot go further.



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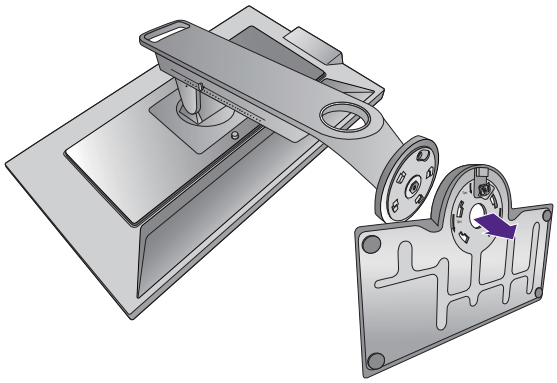
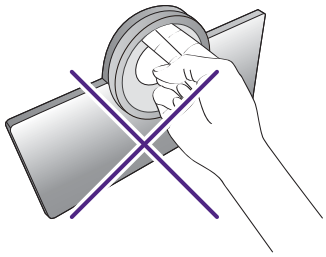
And then detach the base from the stand.

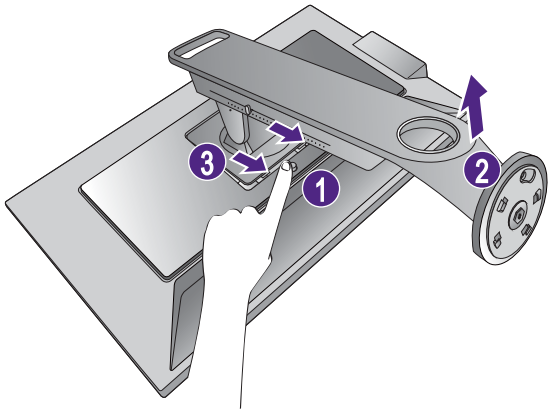


The adjustment scale on the monitor base may be damaged by excessive force. Please handle with care.



3. Remove the monitor stand.

While pressing and holding the VESA mount release button (1), detach the stand from the monitor (2 and 3).



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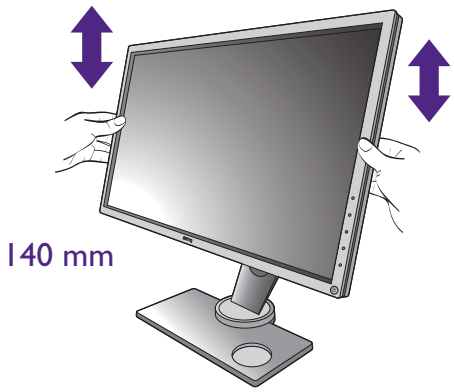
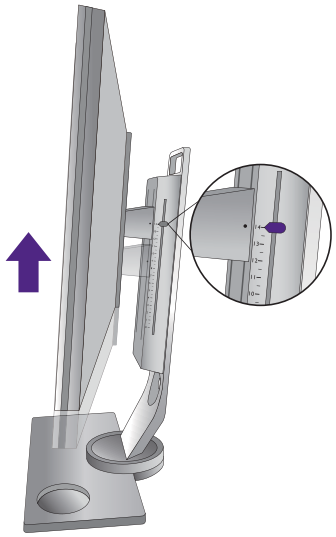
Adjusting the monitor height

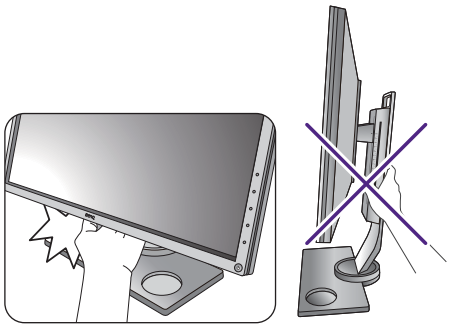
1. To adjust the monitor height, hold both the left and the right sides of the monitor to lower the monitor or lift it up to the desired height.



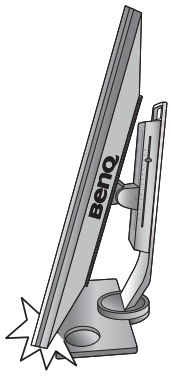
2. On the monitor stand is an adjustment scale that helps keep track of your preferred monitor height. Move the marker on the scale to the monitor stand height just set.



- Avoid placing hands on the upper or lower part of the height-adjustable stand or at the bottom of the monitor, as ascending or descending monitor might cause personal injuries. Keep children out of reach of the monitor while performing this operation.



- If the monitor has been rotated to portrait mode and height adjustment is desired, you should be noted that the wide screen will keep the monitor from being lowered to its minimum height.



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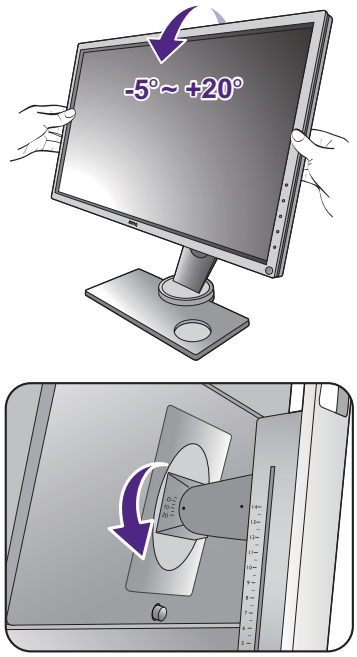
Viewing angle adjustment

You may position the screen to the desired angle with -5° to + 20° monitor tilt, 90° (left and right total) monitor swivel, and 140 mm monitor height.

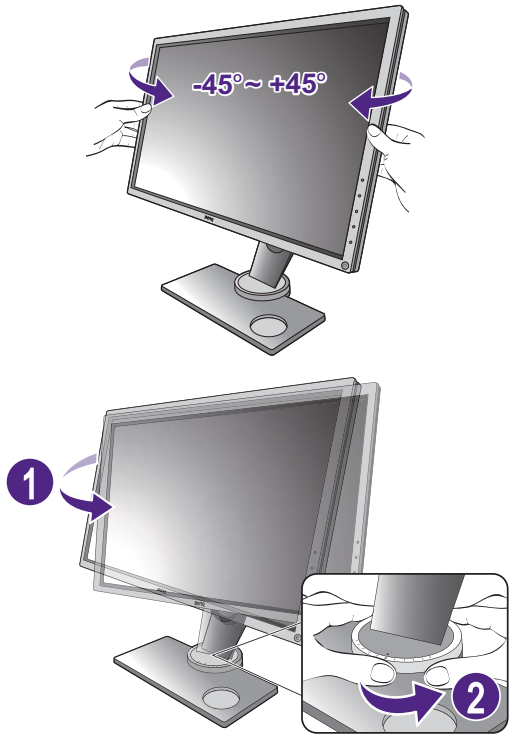
Tilting the monitor

Tilt the monitor gently. The scale on top of the column helps keep track of your preferred tilt angle.



Swiveling the monitor

1. Turn the monitor to the left or right as desired.
2. Turn the adjustment scale on the monitor base. The interval of measurement is 10 degrees, and you can make adjustment within the possible swivel angle. Make sure to align the arrow on the bottom of the stand with the one on the scale. This helps to keep track of your preferred swivel angle.



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Rotating the monitor

1. Pivot the display.

Before rotating the monitor with a portrait viewing orientation, the display has to be rotated 90 degrees.

Click to launch the **Display Pilot** software (installed from gaming.benq.com), and check **Auto Pivot** to set the display to rotate with the monitor automatically. Then go to **System** > **Other Setting** > **Auto Pivot Sensor** and select **ON.**

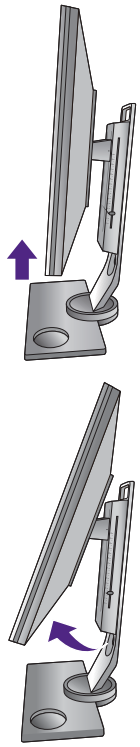
Alternatively, right-click the desktop and select **Screen resolution** from the popup menu. Select **Portrait** in **Orientation**, and apply the setting.

Depending on the operating system on your PC, different procedures should be followed to adjust the screen orientation. Refer to the help document of your operating system for details.

2. Fully extend the monitor and tilt it.

Gently lift the display up and extend it to the maximum extended position. Then tilt the monitor.

The monitor should be vertically extended to allow to rotate from landscape to portrait mode.



3. Rotate the monitor 90 degrees clockwise as illustrated.

To avoid the edge of the LCD display hitting the monitor base surface while it is being rotated, do tilt and extend the monitor to the highest position before you start to rotate the display. You should also make sure there are no obstacles around the monitor and there is enough room for cables.

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4. Adjust the monitor to the desired viewing angle. See Viewing angle adjustment on page 20 for more information.

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Using the monitor wall mounting kit

The back of your LCD monitor has a VESA standard mount with 100mm pattern, allowing the installation of a wall mount bracket. Before starting to install a monitor wall mounting kit, please read the precautions carefully.

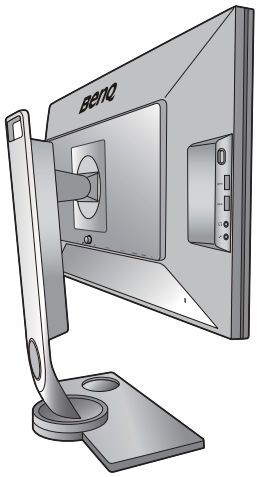
The maximum dimensions of the VESA mounting bracket compatible with your monitor are 125mm x 125mm.

Precautions

- Install your monitor and monitor mounting kit on a wall with flat surface.
- Ensure that the wall material is stable to support the weight of the monitor.
- Turn off the monitor and the power before disconnecting the cables from the LCD monitor.

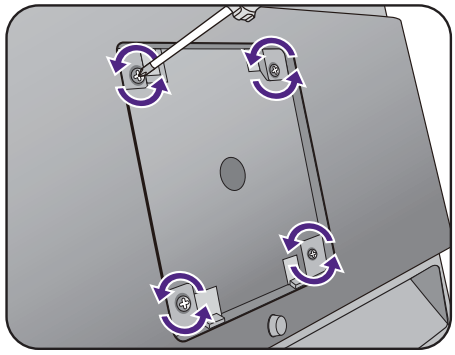
1. Remove the monitor stand.

Detach the monitor stand as instructed in How to detach the stand and the base on page 17.



2. Remove the screws on the back cover.

Use a cross-pointed screwdriver to release the screws on the back cover. The use of a magnetic-head screwdriver is recommended to avoid of losing the screws.



In case you intend to use your monitor on the stand in the future, please keep the monitor base, monitor stand, and screws somewhere safe for future use.

3. Follow the instruction manuals of the wall mount bracket you purchased to complete the installation.

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Getting the most from your BenQ monitor

To gain the most benefit from your new BenQ color LCD flat screen monitor, you should install the custom BenQ LCD Monitor driver software as provided on the BenQ LCD Monitor CD-ROM.

The circumstances under which you connect and install your BenQ LCD Monitor will determine which process you need to follow to successfully install the BenQ LCD Monitor driver software. These circumstances relate to which version of Microsoft Windows you are using, and whether you are connecting the monitor and installing the software onto a new computer (without existing monitor driver software), or whether you are upgrading an existing installation (which already has existing monitor driver software) with a newer monitor.

In either case however, the very next time you turn on your computer (after connecting the monitor to your computer), Windows will automatically recognize the new (or different) hardware, and will launch its **Found New Hardware wizard**.

Follow the wizard instructions until it asks you to select a monitor model. At that point, click the **Have Disk** button, insert the BenQ LCD Monitor CD-ROM and select the appropriate monitor model. Further details and step-by-step instructions for either an automatic (new) or upgrade (existing) installation, see:

- How to install the monitor on a new computer on page 25.
- How to upgrade the monitor on an existing computer on page 26.

- If you require a User Name and Password to login to your Windows computer, you must be logged on as an Administrator or as a member of the Administrators group in order to install the monitor driver software. Furthermore, if your computer is connected to a network which has security access requirements, network policy settings may prevent you from installing software on your computer.
- To check the name of the purchased model, refer to the specification label on the back of the monitor.

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How to install the monitor on a new computer

This instruction details the procedure for selecting and installing the BenQ LCD Monitor driver software on a new computer which has never had a monitor driver installed before. This instruction is only suitable for a computer which has never been used before, and for which the BenQ LCD Monitor is the first ever monitor to be connected to it.

If you are adding the BenQ LCD Monitor to an existing computer that has already had another monitor connected to it (and has monitor driver software installed), you should not be following these instructions. You should instead be following the instructions for How to upgrade the monitor on an existing computer.

1. Follow the instructions in How to assemble your monitor hardware on page 10.
   When Windows starts, it will automatically detect the new monitor and launch the **Found New Hardware Wizard**. Follow the prompts until it displays the option to **Install Hardware Device Drivers**.
2. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.
3. Check **Search for a suitable driver for my device** option, and click **Next**.
4. Check the option for CD-ROM drives (uncheck all others) and click **Next**.
5. Look to confirm that the wizard has selected the correct name of your monitor and click **Next**.
6. Click **Finish**.
7. Restart the computer.

To find the suitable driver files for the purchased model, refer to the following table.

Driver files	Suitable models
XL2430T	XL2430T / XL2430TE

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How to upgrade the monitor on an existing computer

This instruction details the procedure for manually updating the existing monitor driver software on your Microsoft Windows computer. It is currently tested as compatible for Windows 8.1, Windows 8, and Windows 7 Operating System (OS).

The BenQ LCD Monitor driver for your model may well function perfectly with other versions of Windows, however, as at the time of writing, BenQ has done no testing of this driver on other versions of Windows and cannot guarantee its operation on those systems.

Installing monitor driver software involves selecting an appropriate information file (.inf) on the BenQ LCD Monitor CD-ROM for the particular model monitor you have connected, and letting Windows install the corresponding driver files from the CD. You need only steer it in the right direction. Windows has an Upgrade Device Driver Wizard to automate the task and guide you through the file selection and installation process.

See:

- How to install on Windows 8 (8.1) system on page 27.
- How to install on Windows 7 system on page 28.

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How to install on Windows 8 (8.1) system

1. Open **Display Properties**.

   Move the cursor to the lower-right of the screen or press the **Windows** + **C** buttons on the keyboard to bring up the **Charm** bar. Go to **Settings**, **Control Panel**, **Devices and Printers** and right-click the name of your monitor from the menu.

   Alternatively, right-click the desktop and select **Personalize**, **Display**, **Devices and Printers**, and right-click the name of your monitor from the menu.

2. Select **Properties** from the menu.
3. Click the **Hardware** tab.
4. Click **Generic PnP Monitor**, and then the **Properties** button.
5. Click the **Driver** tab and the **Update Driver** button.
6. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.
7. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.
8. Click **Browse** and navigate to the following directory: d:\BenQ_LCD\Driver\ (where d is the drive letter designator for the CD-ROM drive).

The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

9. Select the correct folder name of your monitor from provided driver list, and click **Next**.

   This will copy and install the appropriate monitor driver files to your computer.

10. Click **Close**.

    You may be prompted to restart your computer after the driver update is complete.

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How to install on Windows 7 system

1. Open **Display Properties**.

   Go to **Start**, **Control Panel, Hardware and Sound, Devices and Printers** and right-click the name of your monitor from the menu.

   Alternatively, right-click the desktop and select **Personalize**, **Display**, **Devices and Printers**, and right-click the name of your monitor from the menu.

2. Select **Properties** from the menu.
3. Click the **Hardware** tab.
4. Click **Generic PnP Monitor**, and then the **Properties** button.
5. Click the **Driver** tab and the **Update Driver** button.
6. Insert the BenQ LCD Monitor CD-ROM into a CD drive on the computer.
7. In the **Update Driver Software** window, select the option **Browse my computer for driver software**.
8. Click **Browse** and navigate to the following directory: d:\BenQ_LCD\Driver\ (where d is the drive letter designator for the CD-ROM drive).

The drive letter for your CD drive may differ from the example above depending upon your system - it may be 'D:' or 'E:' or 'F:' etc.

9. Select the correct folder name of your monitor from provided driver list, and click **Next**.

   This will copy and install the appropriate monitor driver files to your computer.

10. Click **Close**.

    You may be prompted to restart your computer after the driver update is complete.

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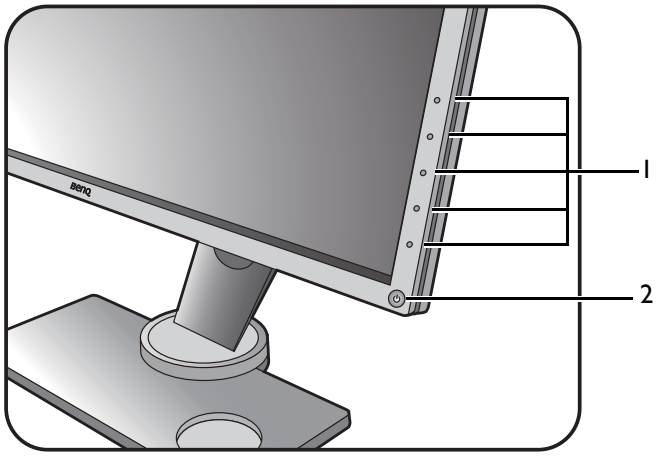
How to adjust your monitor

The control panel

All OSD (On Screen Display) menus can be accessed by the control keys.



No.	Name	Description
1.	Control keys	Accesses the functions or menu items displayed on the screen, right next to each key.
2.	Power key	Turns the power on or off.

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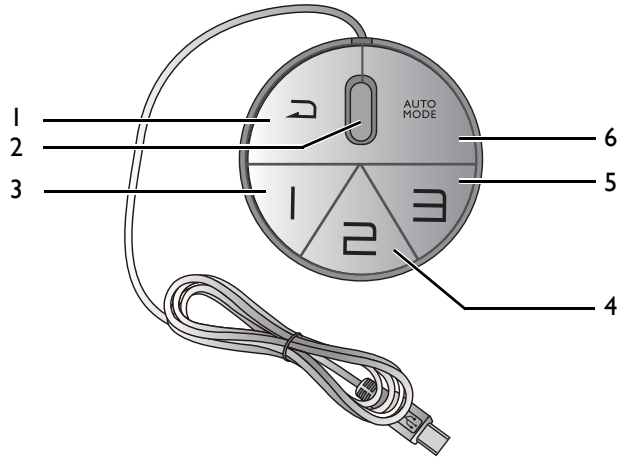
The S Switch

Apart from the control keys, S Switch also provides a quick way to control and access the OSD menus.

You need to connect the S Switch to your monitor prior to use. Follow the instructions in Connect the S Switch to the monitor. on page 13.



No.	Name	Function
1.	Return button	• Returns to the previous menu. • Exits OSD menu. • Press and hold for 5 seconds to switch to **Standard** (**Picture Mode**).
2.	Wheel	• For Increase/Decrease adjustment. • Scrolls Up/Down in a menu. • Selects menu item by pressing once.
3.	Gamer 1 button	• Press to switch to **Gamer 1** (**Picture Mode**). • Press and hold for 5 seconds to save the customized display settings for **Gamer 1**.
4.	Gamer 2 button	• Press to switch to **Gamer 2** (**Picture Mode**). • Press and hold for 5 seconds to save the customized display settings for **Gamer 2**.
5.	Gamer 3 button	• Press to switch to **Gamer 3** (**Picture Mode**). • Press and hold for 5 seconds to save the customized display settings for **Gamer 3**.
6.	**Auto Mode** button	Press to switch **Auto Game Mode** on or off. To enable **Auto Game Mode**, see Applying a suitable game mode automatically on page 36.

S Switch is designed for BenQ LCD Monitor XL30 series exclusively. Do not connect it to other devices with USB ports.

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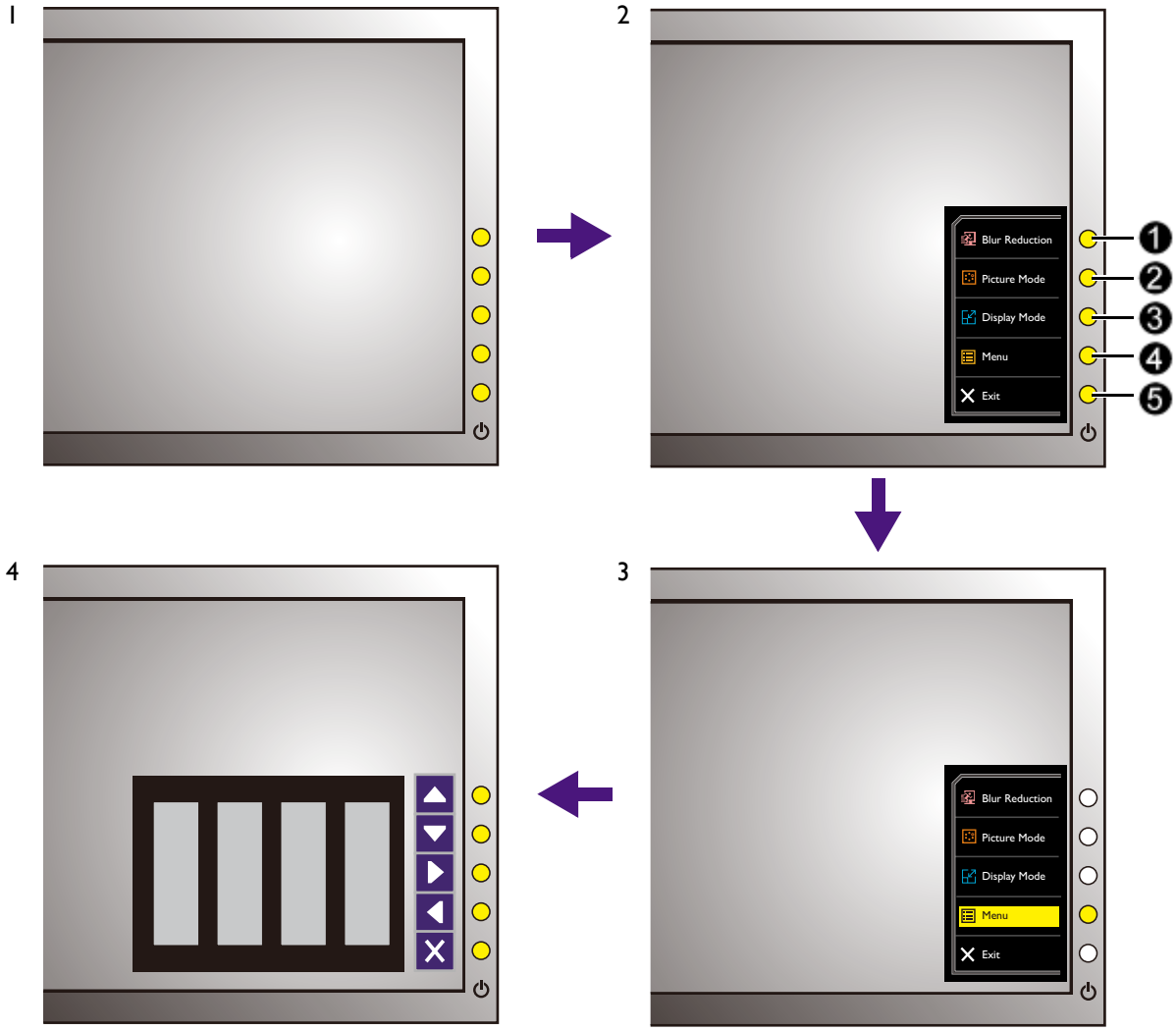
Basic menu operation

You can use the OSD menu to adjust all the settings on your monitor.



1. Press any of the control keys. Alternatively, press the wheel or the return button on the S Switch.
2. The hot key menu is displayed. The top three controls are custom keys and are designated for particular functions.
3. Select **Menu** to access the main menu.
4. In the main menu, follow the icons next to the control keys to make adjustments or selection. See Navigating the main menu on page 39 for details on the menu options.

No.	OSD in hot key menu	OSD icon in main menu	Function
❶	**Custom Key 1**	▲	• By default, the key is the hot key for **Blur Reduction** (Motion Blur Reduction). To change the default settings, see Customizing the hot keys on page 35. • For Up/Increase adjustment.

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No.	OSD in hot key menu	OSD icon in main menu	Function
❷	**Custom Key 2**		• By default, the key is the hot key for **Picture Mode**. To change the default settings, see Customizing the hot keys on page 35. • For Down/Decrease adjustment.
❸	**Custom Key 3**		• By default, the key is the hot key for **Display Mode**. To change the default settings, see Customizing the hot keys on page 35. • Enters sub menus. • Selects menu items.
❹	**Menu**		• Activates the main menu. • Returns to the previous menu.
❺	**Exit**		Exits OSD menu.

• OSD = On Screen Display.
The hot keys only operate while the main menu is not currently displaying. Hot key displays will disappear after a few seconds of no key activity.

• To unlock the OSD controls, press and hold any key for 10 seconds.

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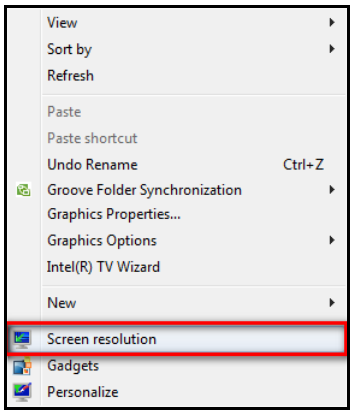
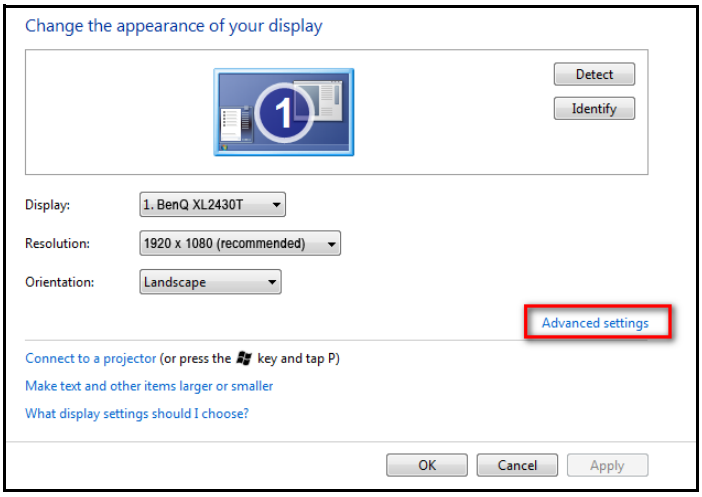
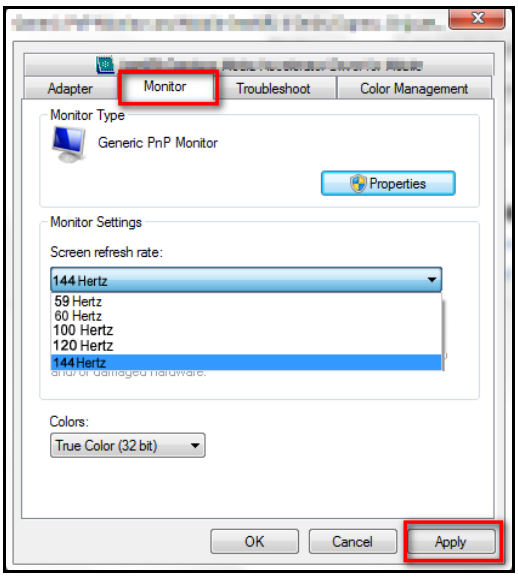
Initial setup for playing games

You can optimize the monitor to enhance your gaming experience. You might want to start with the following settings.

1. Set the screen refresh rate to **144 Hertz** (144 Hz).
   a. Right-click the desktop and select **Screen resolution**. Click **Advanced settings**. Under the **Monitor** tab, change the screen refresh rate to **144 Hertz**. And then click **Apply** and **Yes** to confirm the change.







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Depending on the operating system on your PC, different procedures should be followed to adjust the screen refresh rate. Refer to the Help document of your operating system for details.

b. Go to the setup menu in your game, and change the frame rate or screen refresh rate to 144 Hz. Refer to the Help document that came with your game for details.

To check if the screen refresh rate has been changed, select **Menu** from the hotkey menu on your monitor, and go to **System** and **Information**. The refresh rate in **Current Resolution** should be 144 Hz.

If 144 Hz is not available in your menus, check the following:

- make sure the DVI-D Dual Link cable or DisplayPort cable is properly connected to your computer and the monitor
- make sure your GPU supports 144 Hz
- make sure your game supports 144 Hz.

2. Select a desired display mode. See Adjusting display mode on page 37.
3. Resize your display by **Smart Scaling**. See Using Smart Scaling on page 37.
4. Select an appropriate game mode for your game. **FPS** is for FPS games, while **RTS** is for RTS games. For more game modes, please download by **Game Mode Loader**. See Downloading more game modes using Game Mode Loader on page 36.
5. Adjust the brightness of your display. See Brightness on page 43.
6. Adjust the brightness of the black shades by **Black eQualizer**. See Black eQualizer on page 41.
7. Adjust the monitor height. See Adjusting the monitor height on page 19.

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Picture optimization

The default picture mode is **FPS1**, which is designed for FPS games. If you prefer other picture modes, go to **Picture** and change setting in **Picture Mode**.

The easiest way to obtain an optimal display from an analog (D-Sub) input is to use the **Auto Adjustment** function. Go to **Display**, **Geometry**, and **Auto Adjustment** to optimize the currently displayed image to the screen.

When you connect a digital video output using a digital (DVI, HDMI, or DP) cable to your monitor, the **Auto Adjustment** function will be disabled, because the monitor will automatically display the best image.

Please ensure that the connected graphic card on your computer is set to the native resolution of the monitor when you use the **Auto Adjustment** function.

If you wish, you can always adjust the screen geometric settings manually using geometry menu items. To assist you in this endeavour, BenQ has provided a screen test image utility which you can use to check for screen color, grayscale and line gradient display.

1. Run the test program auto.exe from CD-ROM. You could also use any other image, such as the desktop of your operating system. However, we recommend that you use auto.exe. As you run auto.exe, a test pattern displays.
2. Press any of the control keys, or the wheel, or the return button on the S Switch to bring up the hot key menu. Select **Menu** to enter the main menu.
3. Go to **Display**, **Geometry**, and **Auto Adjustment**.
4. If you notice a vertical noise (like a curtain effect-shimmering of vertical lines), select **Pixel Clock** and adjust the monitor until the noise disappears.
5. If you notice a horizontal noise, select **Phase** and adjust the monitor until the noise disappears.

Customizing the hot keys

The top 3 control keys (also called custom keys) perform as hot keys to provide direct access to pre-defined functions. You can change the default setting and designate different functions for these keys.

1. Press any of the control keys, or the wheel, or the return button on the S Switch to bring up the hot key menu.
2. Select **Menu** to access the main menu.
3. Go to **System** and **Custom Key**.
4. Select the custom key you want to change.
5. In the sub menu, select a function that can be accessed by this key. A pop-up message will appear, showing that the setup is complete.

Setting up your own game mode

There are several preset picture modes on your monitor that are suitable for games. To better suit your needs, you can change and save the related display settings, and switch to your own game mode easily.

1. Adjust the related available settings in different OSD menus.

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2. After all settings are done, go to **Game Settings** and **Save Settings** and save as one of the game modes.
   Alternatively, press and hold one of the game mode buttons (labeled 1~3) on S Switch to save as one of the game modes.
3. If you want to switch to your game mode at any time, go to **Picture** and **Picture Mode**, and select the game mode you saved in Step 2. Your preferred display settings will be applied all at once.
   Alternatively, press one of the game mode buttons (depending on your settings in Step 2) on S Switch to switch to the desired game mode quickly.

BenQ offers more optimized game modes on the website. If you prefer to use these settings, refer to Downloading more game modes using Game Mode Loader on page 36.

Applying a suitable game mode automatically

Once the game modes have been set, you can choose to manually select a desired mode, or use the **Auto Game Mode** function and wait for an appropriate mode to be applied automatically.

Activating the Auto Game Mode function

1. Launch the **Display Pilot** software (installed from gaming.benq.com).
2. Go to **Game** > **Auto Game Mode** and check to activate **Auto Game Mode**.
3. Set up appropriate game modes for specific games.

Once a game is launched, a suitable game mode would be applied depending on the type of the game you are playing.

Do not disable **Display Pilot** if **Auto Game Mode** function is desired.

Disabling the Auto Game Mode function

To disable the **Auto Game Mode** function, do one of the following:

- Press the **Auto Mode** button on the S Switch.
- Select **OFF** in **Game Settings** > **Auto Game Mode** on your monitor.
- Uncheck **Activate** in **Game** > **Auto Game Mode** in **Display Pilot**.

Downloading more game modes using Game Mode Loader

Instead of customizing your own display settings, you can download the game modes through the provided Display Pilot software and apply the settings directly.

1. Launch the **Display Pilot** software (installed from gaming.benq.com).
2. Select **Game** > **Game Mode Loader**.
3. Click **Check Now** to check for new game modes.
4. To apply the downloaded game modes, select one from the drop-down list, and click **Apply**.

Internet connection is required for this operation.

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Adjusting display mode

To display images of aspect ratios other than your monitor aspect ratio and sizes other than your display size, you can adjust the display mode on the monitor. For the aspect ratio and display size of your monitor, see the specifications on the CD.

1. Press any of the control keys, or the wheel, or the return button on the S Switch to bring up the hot key menu, and press **Menu** to access the main menu.
2. Go to **Display** and **Display Mode**.
3. Select an appropriate display mode. The setting will take effect immediately.

Switch to the desired display mode first, and follow the instructions in Using Smart Scaling on page 37 to adjust the display size to precisely suit your needs.

Using Smart Scaling

You can resize your display by **Smart Scaling**.

1. Go to **Display** and **Smart Scaling**.
2. Adjust the value.

- If one of the custom keys is preset for **Smart Scaling**, you can press the custom key and adjust the value directly.
- Your display may become unstable temporarily when being resized. This is a normal phenomenon and should not be considered as manufacturing defect.
- For more information on **Smart Scaling**, go to Smart Scaling on page 46.

Using Instant Mode

While playing games, you can diminish the input lag by activating **Instant Mode**.

1. Go to **Game Settings** and **Instant Mode**.
2. Select **On**.

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Advanced control of your monitor from Display Pilot

Your monitor can be enhanced with **Display Pilot**, a software that provides the basic control of the display as well as the advanced settings and functions for gaming.

The **Display Pilot** software is available on gaming.benq.com. Download and install the software to enjoy the following main functions of **Display Pilot**. To find out more about the software, go to **System** > **Options** > **User Manual** in the **Display Pilot**.

- Control of the OSD menus.
- Setup of **Auto Game Mode**. To enable **Auto Game Mode**, see Applying a suitable game mode automatically on page 36.
- Export / import the color and game settings from your monitor to another compatible gaming monitor. Go to **Game** > **Game Mode To Go** for operation.
- Access to mode game modes through **Game Mode Loader**. Go to **Game** > **Game Mode Loader** for operation.

Supported operating systems: Windows 7, Windows 8, and Windows 8.1.

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Navigating the main menu

You can use the OSD (On Screen Display) menu to adjust all the settings on your monitor.

Press any of the control keys, or the wheel, or the return button on the S Switch to bring up the hot key menu. Select **Menu** to enter the main menu. See Basic menu operation on page 31 for details.

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.

The OSD menu languages may differ from the product supplied to your region, see Language on page 49 under **System** and **OSD Settings** for more details.

For more information on each menu, please refer to the following pages:

- Game Settings menu on page 40
- Picture menu on page 42
- Display menu on page 45
- System menu on page 48

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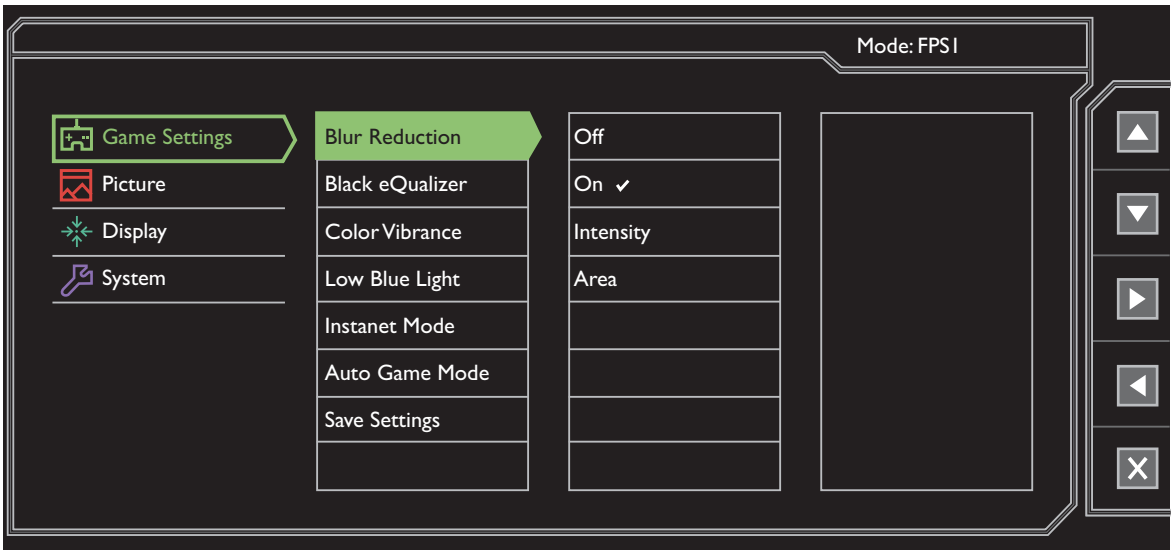
Game Settings menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select **Menu** from the hot key menu.
2. Use ▲ or ▼ to select **Game Settings**.
3. Select ▶ to go to a sub menu, and then use ▲ or ▼ to select a menu item.
4. Use ▲ or ▼ to make adjustments, or use ✓ to make selection.
5. To return to the previous menu, select ◀.
6. To exit the menu, select ✕.

Item	Function		Range
Blur Reduction (Motion Blur Reduction)	Reduces motion blur in games or during video playback. Note the impacts of the **Blur Reduction** function once activated. - Brightness is decreased. - Flicker-free is disabled.		
	OFF	Disables motion blur reduction.	
	ON	Enables motion blur reduction.	
	Intensity	Enhances motion blur reduction. The brightness of the display changes with the intensity of Blur Reduction.	1 ~ 25
	Area	Decides where the best performance of motion blur reduction is.	0 ~ 100

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Item	Function	Range
Black eQualizer	Brings out the dark shades by increasing the brightness without changing those of the light shades. If the image is too bright or barely contains any dark shades, adjusting the value of **Black eQualizer** may not show much change to the image.	0 ~ 20
Color Vibrance	Provides different sets of color settings. Once applied, you can adjust some of the color settings in the corresponding menus.	0 ~ 20
Low Blue Light	Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes. The higher the value is, the more blue light has been decreased.	0 ~ 10
Instant Mode	Adjusts the image processing to diminish input lag. You can have a real-time experience while playing games. To optimize the picture quality, disable **Instant Mode** if the source is interlaced video. To check the resolution of the video source, go to **System** and **Information** on the monitor.	• **ON** • **OFF**
Auto Game Mode	Enables **Auto Game Mode** function, which detects the launched game and applies an appropriate game mode automatically.	• **ON** • **OFF**
Save Settings	Saves a new set of customized display settings. See Setting up your own game mode on page 35 for information on applying the game mode.	• **Gamer1** • **Gamer2** • **Gamer3**

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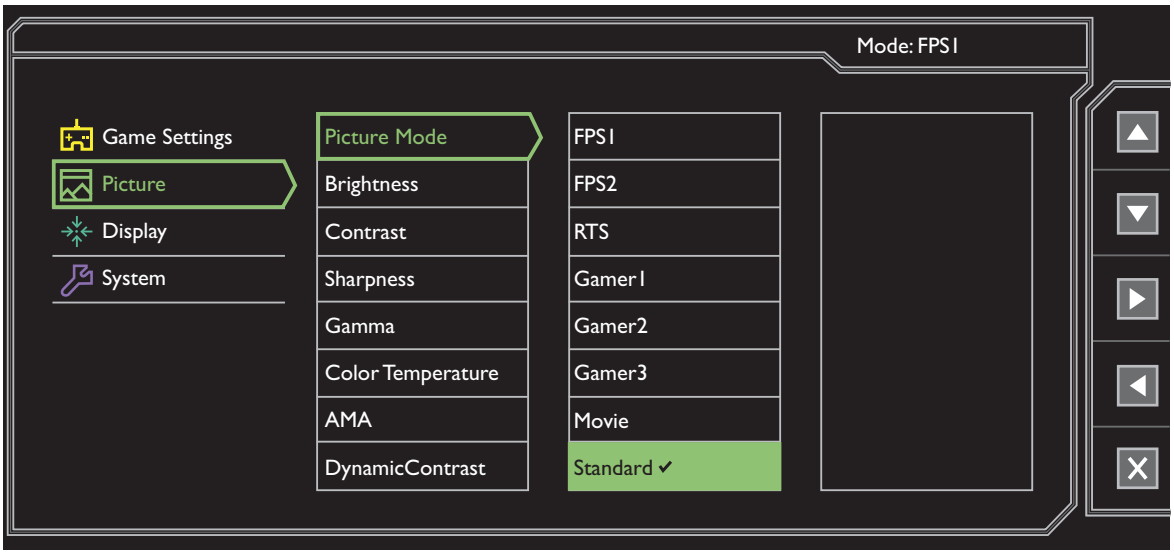
Picture menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select **Menu** from the hot key menu.
2. Use ▲ or ▼ to select **Picture**.
3. Select ▶ to go to a sub menu, and then use ▲ or ▼ to select a menu item.
4. Use ▲ or ▼ to make adjustments, or use ✓ to make selection.
5. To return to the previous menu, select ◀.
6. To exit the menu, select ✕.

Item	Function		Range
Picture Mode	Select a picture mode that best suits the type of images shown on the screen. The default setting is **FPS1**. Change the setting if needed.		
	FPS1	For playing FPS (First Person Shooting) games.	
	FPS2		
	RTS	For playing RTS (Real-time strategy) games.	
	Gamer1	Applies customized display settings. For details on setting up a game mode, see Setting up your own game mode on page 35.	
	Gamer2		
	Gamer3		
	Movie	For viewing videos.	

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Item	Function		Range
	Standard	For basic PC application.	
Brightness	Adjusts the balance between light and dark shades.		0 to 100
Contrast	Adjusts the degree of difference between darkness and lightness.		0 to 100
Sharpness	Adjusts the clarity and visibility of the edges of the subjects in the image.		1 to 10
Gamma	Adjusts the tone luminance. The default value is 3 (the standard value for Windows).		• **1** • **2** • **3** • **4** • **5**
Color Temperature	**Normal**	Allows video and still photographs to be viewed with natural coloring. This is the factory default color.	
	Bluish	Applies a cool tint to the image and is factory pre-set to the PC industry standard white color.	
	Reddish	Applies a warm tint to the image and is factory pre-set to the news print standard white color.	
	User Define	The blend of the Red, Green and Blue primary colors can be altered to change the color tint of the image. Go to the succeeding **R** (red), **G** (green), and **B** (blue) menus to change the settings. Decreasing one or more of the colors will reduce their respective influence on the color tint of the image. (e.g. if you reduce the Blue level the image will gradually take on a yellowish tint. If you reduce Green, the image will become a magenta tint.)	• **R** (0~100) • **G** (0~100) • **B** (0~100)
AMA	Improves the gray level response time of the LCD panel.		• **OFF** • **High** • **Premium**
Dynamic Contrast	The function is to automatically detect the distribution of an input visual signal, and then to create the optimal contrast.		0 to 5

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Item	Function	Range
Senseye Demo	Displays the preview of screen images under the selected mode from Picture Mode. The screen will be divided into two windows; the left window demonstrates images of Standard mode, while the right window presents the images under the specified mode.	• **ON** • **OFF**
Reset Color	Resets the custom color settings to the factory defaults.	• **YES** • **NO**

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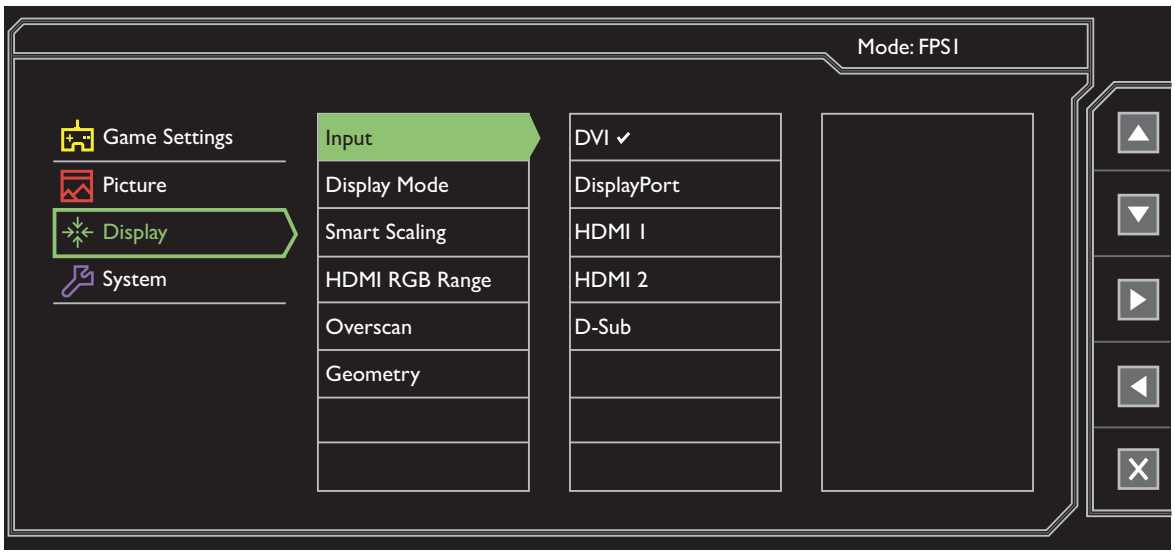
Display menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select **Menu** from the hot key menu.
2. Use ▲ or ▼ to select **Display**.
3. Select ▶ to go to a sub menu, and then use ▲ or ▼ to select a menu item.
4. Use ▲ or ▼ to make adjustments, or use ✓ to make selection.
5. To return to the previous menu, select ◀.
6. To exit the menu, select ✕.

Item	Function	Range
Input	Use this to change the input to that appropriate to your video cable connection type.	• **DVI** • **DisplayPort** • **HDMI 1** • **HDMI 2** • **D-Sub**

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Item	Function		Range
Display Mode	This feature is provided to allow aspect ratios other than 16:9 to be displayed without geometric distortion. The options under **Display Mode** will be different depending on the input signal sources. Depending on your selection of **Picture Mode**, different **Display Mode** option is pre-set. Change the setting if needed.		
	Full	Scales the input image to fill the screen. Ideal for 16:9 aspect images.	
	Aspect	The input image is displayed without geometric distortion filling as much of the display as possible.	
	1:1	Displays the input image in its native resolution without scaling.	
	17" (4:3)	Displays the input image as if on a 17" monitor of 4:3 aspect ratio.	
	19" (4:3)	Displays the input image as if on a 19" monitor of 4:3 aspect ratio.	
	19"W (16:10)	Displays the input image as if on a 19"W monitor of 16:10 aspect ratio.	
	21.5" (16:9)	Displays the input image as if on a 21.5" monitor of 16:9 aspect ratio.	
	22"W (16:10)	Displays the input image as if on a 22"W monitor of 16:10 aspect ratio.	
	23"W (16:9)	Displays the input image as if on a 23"W monitor of 16:9 aspect ratio.	
Smart Scaling	Adjusts the display size to best suit your needs. If the **Display Mode** is **17"**, **19"**, **19"W**, or **21.5"**, the last 4 scaling settings (in different resolutions of the input source) will be saved for quick access. If the **Display Mode** is **1:1** (and the resolution of the input source is lower than 1920 x 1080), the last 3 scaling settings (in different resolutions of the input source) will be saved for quick access.		0 ~ 100
HDMI RGB PC Range	Determines the range of color scales. Select an option that matches the RGB range setting on the connected HDMI device.		• **RGB** (0 ~ 255) • **RGB** (16 ~ 235)

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Item	Function		Range
Overscan	Slightly enlarges the input image. Use this feature to hide annoying edge noise if present around your image. Available only when the input source is HDMI, DP, or D-Sub (VGA converted from Component).		• **ON** • **OFF**
Geometry	**Auto Adjustment**	Optimizes and adjusts the screen settings automatically for you. Not applicable to a digital input signal.	
	H. Position	Adjusts the horizontal position of the screen image.	0 to 100
	V. Position	Adjusts the vertical position of the screen image.	0 to 100
	Pixel Clock	Adjusts the pixel clock frequency timing to synchronize with the analog input video signal. See also: Picture optimization on page 35. Not applicable to a digital input signal.	0 to 100
	Phase	Adjusts the pixel clock phase timing to synchronize with the analog input video signal. See also: Picture optimization on page 35. Not applicable to a digital input signal.	0 to 63

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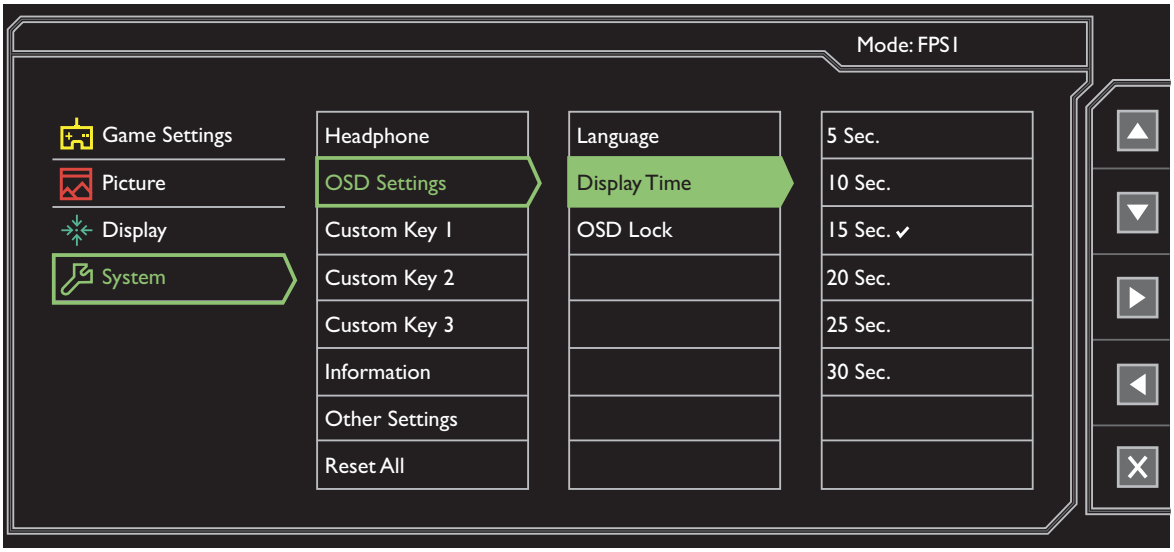
System menu

Available menu options may vary depending on the input sources, functions and settings. Menu options that are not available will become grayed out. And keys that are not available will be disabled and the corresponding OSD icons will disappear. For models without certain functions, their settings and related items will not appear on the menu.



1. Select **Menu** from the hot key menu.
2. Use ▲ or ▼ to select **System**.
3. Select ▶ to go to a sub menu, and then use ▲ or ▼ to select a menu item.
4. Use ▲ or ▼ to make adjustments, or use ✓ to make selection.
5. To return to the previous menu, select ◀.
6. To exit the menu, select ✕.

Item	Function		Range
Headphone	**Volume**	Adjusts the audio volume.	0 ~ 100
	Mute	Mutes the audio input.	• **ON** • **OFF**

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Item	Function		Range
OSD Settings	**Language**	Sets the OSD menu language. The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your region.	• **English** • **Français** • **Deutsch** • **Italiano** • **Español** • **Polski** • **Česky** • **Magyar** • **Serbo-croatia** • **Română** • **Nederlands** • **Русский** • **Svenska** • **Português** • 日本語 • 繁體中文 • 简体中文
	Display Time	Adjusts the display time of the OSD menu.	• **5 Sec.** • **10 Sec.** • **15 Sec.** • **20 Sec.** • **25 Sec.** • **30 Sec.**
	OSD Lock	Prevents all the monitor settings from being accidentally changed. When this function is activated, the OSD controls and hotkey operations will be disabled. To unlock the OSD controls, press and hold any key for 10 seconds.	

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Item	Function		Range
Custom Key	**Custom Key 1**	Sets the function to be accessed by custom key 1.	• **Black eQualizer** • **Blur Reduction** • **Color Vibrance** • **Low Blue Light** • **Contrast** • **Volume** • **Mute** • **Input** • **Brightness** • **Picture mode** • **Display Mode** • **Auto Game Mode**
	Custom Key 2	Sets the function to be accessed by custom key 2.	
	Custom Key 3	Sets the function to be accessed by custom key 3.	
Information	Displays the current monitor property settings.		• **Model Name** • **Input** • **Current Resolution** • **Optimum Resolution** (best with the monitor)
Other Setting	**Resolution Notice**	Sets whether to display the resolution notice of the recommended resolution when a new input source is detected by the monitor.	• **ON** • **OFF**
	Buzzer	Turns the tone of control keys on or off.	• **ON** • **OFF**
	Input Auto Switch	Sets to automatically detect the available input source.	• **ON** • **OFF**
	Auto Pivot Sensor	Sets to rotate the display with the monitor.	• **ON** • **OFF**
	Auto Power Off	Sets the time to power off the monitor automatically in power saving mode.	• **OFF** • **10min.** • **20min.** • **30min.**

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Item	Function		Range
	LED Indicator	Determines the brightness of the LED indicator.	• **OFF** • **Medium** • **High**
	DDC/CI	Allows the monitor settings to be set through the software on the PC. DDC/CI, short for Display Data Channel/Command Interface, which was developed by Video Electronics Standards Association (VESA). DDC/CI capability allows monitor controls to be sent via the software for remote diagnostics.	• **ON** • **OFF**
Reset All	Resets all mode, color and geometry settings to the factory default values.		• **YES** • **NO**

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Troubleshooting

Frequently asked questions (FAQ)

The image has a faulty coloration.

- The default **Picture Mode** is **FPS1**, which is designed for FPS games. If you prefer other picture modes, go to **Picture** and change setting in **Picture Mode**.
- If the image has a yellow, blue or pink appearance, go to **Picture** and **Reset Color**, and then choose **YES** to reset the color settings to the factory defaults.

If the image is still not correct and the OSD also has faulty coloration, this means one of the three primary colors is missing in the signal input. Now check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.

The image is blurred.

Read the instructions on the link **"Adjusting the Screen Resolution"** on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.

How do you use a VGA extension cable?

Remove the extension cable for the test. Is the image now in focus? If not, optimize the image by working through the instructions in the **"Adjusting the refresh rate"** section on the link **"Adjusting the Screen Resolution"**. It is normal for blurring to occur due to conduction losses in extension cables. You can minimize these losses by using an extension cable with better conduction quality or with a built-in booster.

Does the blurring only occur at resolutions lower than the native (maximum) resolution?

Read the instructions on the link **"Adjusting the Screen Resolution"** on the CD. Select the native resolution.

Pixel errors can be seen.

One of several pixels is permanently black, one or more pixels are permanently white, one or more pixels are permanently red, green, blue or another color.

- Clean the LCD screen.
- Cycle power on-off.
- These are pixels that are permanently on or off and is a natural defect that occurs in LCD technology.

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No image can be seen.

Is the prompt on the display illuminated in green?

If the LED is illuminated in green and there is a message **Out of Range** on the screen, this means you are using a display mode that this monitor does not support, please change the setting to one of the supported mode. Please read the **"Preset display modes"** section from the link **"Adjusting the Screen Resolution"**.

Faint shadow from the static image displayed is visible on the screen.

- Activate the power management function to let your computer and monitor go into a low power "sleep" mode when not actively in use.
- Use a screensaver to prevent the occurrence of image retention.

Is the prompt on the display illuminated in orange?

If the LED is illuminated in orange, the power management mode is active. Press any button on the computer keyboard or move the mouse. If that does not help, check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.

Is the prompt on the display not illuminated at all?

Check the power supply mains socket, the external power supply and the mains switch.

The image is distorted, flashes or flickers.

Read the instructions on the link **"Adjusting the Screen Resolution"** on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.

You are running the monitor at its native resolution, but the image is still distorted.

Images from different input sources may appear distorted or stretched on the monitor running at its native resolution. To have the optimal display performance of each type of input sources, you can use the **Display Mode** function to set a proper aspect ratio for the input sources. See Display Mode on page 46 for details.

The image is displaced in one direction.

Read the instructions on the link **"Adjusting the Screen Resolution"** on the CD, and then select the correct resolution, refresh rate and make adjustments based on these instructions.

The OSD controls are inaccessible.

To unlock the OSD controls when it is preset to be locked, press and hold any key for 10 seconds.

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No sound can be heard from the connected external speakers.

- Remove your headphone (if the headphone is connected to the monitor).
- Check whether the headphone jack is properly connected.
- If the external speakers are USB-powered, check whether the USB connection is OK.
- Increase the volume (volume may be muted or too low) on the external speakers.

Need more help?

If your problems remain after checking this manual, please contact your place of purchase or e-mail us at: Support@BenQ.com.

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